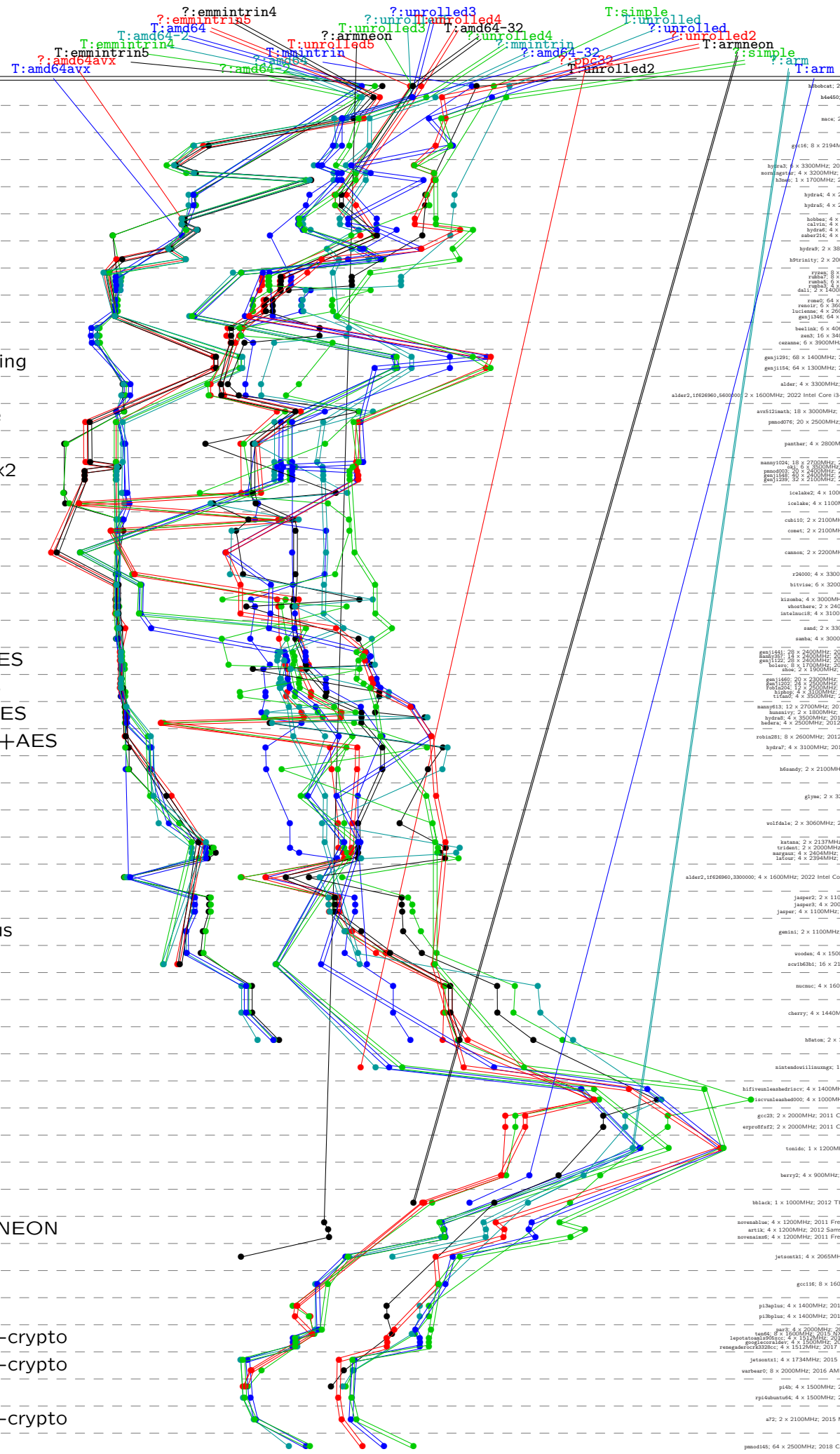


crypto_hash
cubehash512
implementations
amd64 Bobcat
amd64 K8
amd64 K10 65nm
amd64 K10 45nm
amd64 K10 32nm
amd64 Bulldozer
amd64 Piledriver
amd64 Zen
amd64 Zen 2
amd64 Zen 3
amd64 Knights Landing
amd64 Golden Cove
amd64 Cascade Lake
amd64 Tiger Lake
amd64 Skylake+512x2
amd64 Ice Lake
amd64 Comet Lake
amd64 Cannon Lake
amd64 Coffee Lake
amd64 Kaby Lake
amd64 Skylake
amd64 Broadwell+AES
amd64 Haswell+AES
amd64 Ivy Bridge+AES
amd64 Sandy Bridge+AES
amd64 Sandy Bridge
amd64 Westmere
amd64 Core 2 45nm
amd64 Core 2 65nm
amd64 Gracemont
amd64 Tremont
amd64 Goldmont Plus
amd64 Goldmont
amd64 Airmont
amd64 Silvermont
amd64 Bonnell
ppc32 G3
riscv64 U54
mips32 Octeon II
armeabi Armada
armeabi Cortex-A7
armeabi Cortex-A8
armeabi Cortex-A9+NEON
armeabi Cortex-A15
aarch64 X-Gene
aarch64 Cortex-A53
aarch64 Cortex-A53+crypto
aarch64 Cortex-A57+crypto
aarch64 Cortex-A72
aarch64 Cortex-A72+crypto
aarch64 ThunderX2
Time

16384

65536

262144



Bobcat: 2 x 1650MHz; 2011 AMD G-T56N; amd64; Bobcat (500F10); supercop-20230630
Bobcat: 2 x 1650MHz; 2011 AMD E-450; amd64; Bobcat (500F20); supercop-20230618
Bobcat: 2 x 2000MHz; 2006 AMD Athlon 64 X2; amd64; K8 (40f2); supercop-20171015
Bobcat: 8 x 2194MHz; 2008 AMD Opteron 8354; amd64; K10 65nm (100F23); supercop-20171218
Bobcat: 4 x 3300MHz; 2010 AMD Phenom II X6 1100T; amd64; K10 45nm (100F40); supercop-20171218
Bobcat: 4 x 3200MHz; 2009 AMD Phenom II X4 955; amd64; K10 45nm (100F42); supercop-20170904
Bobcat: 1 x 1700MHz; 2010 AMD Athlon II Neo K125; amd64; K10 45nm (100F63); supercop-20171015
Bobcat: 4 x 2900MHz; 2011 AMD A6-3650; amd64; K10 32nm (300F10); supercop-20230630
Bobcat: 4 x 2900MHz; 2011 AMD A8-3850; amd64; K10 32nm (300F10); supercop-20230630
Bobcat: 4 x 4000MHz; 2012 AMD FX-8350; amd64; Bulldozer (500F20); supercop-20171218
Bobcat: 4 x 4000MHz; 2012 AMD FX-8350; amd64; Bulldozer (500F20); supercop-20171218
Bobcat: 4 x 3100MHz; 2011 AMD FX-8120; amd64; Bulldozer (500F12); supercop-20171218
Bobcat: 4 x 4000MHz; 2012 AMD FX-8350; amd64; Bulldozer (500F20); supercop-20230630
Bobcat: 2 x 3800MHz; 2012 AMD A10-5800K; amd64; Piledriver (610F11); supercop-20171218
Bobcat: 2 x 2000MHz; 2012 AMD A10-4655M; amd64; Piledriver (610F11); supercop-20230630
Bobcat: 8 x 3000MHz; 2017 AMD Ryzen 7 1700; amd64; Zen (800F11); supercop-20230630
Bobcat: 8 x 3000MHz; 2017 AMD Ryzen 7 1700; amd64; Zen (800F11); supercop-20230630
Bobcat: 8 x 3000MHz; 2017 AMD Ryzen 7 1700; amd64; Zen (800F11); supercop-20230630
Bobcat: 8 x 3000MHz; 2017 AMD Ryzen 7 1700; amd64; Zen (800F11); supercop-20230630
Bobcat: 8 x 3000MHz; 2017 AMD Ryzen 7 1700; amd64; Zen (800F11); supercop-20230630
Bobcat: 8 x 3000MHz; 2017 AMD Ryzen 7 1700; amd64; Zen (800F11); supercop-20230630
Bobcat: 64 x 2250MHz; 2019 AMD EPYC 7742; amd64; Zen 2 (830F10); supercop-20230630
Bobcat: 6 x 3000MHz; 2022 AMD Ryzen 5 4500U; amd64; Zen 2 (850F10); supercop-20230630
Bobcat: 4 x 2000MHz; 2021 AMD Ryzen 9 5900X; amd64; Zen 2 (850F10); supercop-20230630
Bobcat: 64 x 2000MHz; 2019 AMD EPYC 7702; amd64; Zen 2 (830F10); supercop-20191017
Bobcat: 6 x 4024MHz; 2021 AMD Ryzen 5 5500U; amd64; Zen 2 (850F00); supercop-20211221
Bobcat: 16 x 3400MHz; 2020 AMD Ryzen 9 5900X; amd64; Zen 3 (820F10); supercop-20220113
Bobcat: 6 x 3900MHz; 2021 AMD Ryzen 5 PRO 5650G; amd64; Zen 3 (850F00); supercop-20230630
Bobcat: 68 x 1400MHz; 2016 Intel Xeon Phi 7210; amd64; Knights Landing (506F71); supercop-20180818
Bobcat: 64 x 1300MHz; 2016 Intel Xeon Phi 7210; amd64; Knights Landing (506F71); supercop-20170228
Bobcat: 4 x 3300MHz; 2022 Intel Core i3-1210U; amd64; Golden Cove (906F40); supercop-20230630
Bobcat: 2 x 1600MHz; 2022 Intel Core i3-1215U performance cores; amd64; Golden Cove (906A4-40); supercop-20230630
Bobcat: 18 x 3000MHz; 2019 Intel Core i9-10980K; amd64; Cascade Lake (506F71); supercop-20211225
Bobcat: 20 x 2500MHz; 2019 Intel Xeon Gold 6248; amd64; Cascade Lake (506F71); supercop-20191017
Bobcat: 4 x 2800MHz; 2020 Intel Core i7-1165G7; amd64; Tiger Lake (806C1); supercop-20230630
Bobcat: 10 x 2700MHz; 2017 Intel Xeon Core 9; amd64; Skylake+512x2 (806C1); supercop-20170824
Bobcat: 8 x 2500MHz; 2017 Intel Core 9; amd64; Skylake+512x2 (806C1); supercop-20171015
Bobcat: 8 x 2500MHz; 2017 Intel Core 9; amd64; Skylake+512x2 (806C1); supercop-20171015
Bobcat: 8 x 2500MHz; 2017 Intel Core 9; amd64; Skylake+512x2 (806C1); supercop-20171015
Bobcat: 8 x 2500MHz; 2017 Intel Core 9; amd64; Skylake+512x2 (806C1); supercop-20171015
Bobcat: 8 x 2500MHz; 2017 Intel Core 9; amd64; Skylake+512x2 (806C1); supercop-20171015
Bobcat: 4 x 1000MHz; 2019 Intel Core i3-1035G1; amd64; Ice Lake (706E5); supercop-20221005
Bobcat: 4 x 1100MHz; 2020 Intel Core i5-1030NG7; amd64; Ice Lake (706E5); supercop-20200626
Bobcat: 2 x 2100MHz; 2019 Intel Core i3-10110U; amd64; Comet Lake (806C); supercop-20230630
Bobcat: 2 x 2100MHz; 2019 Intel Core i3-10110U; amd64; Comet Lake (806C); supercop-20230630
Bobcat: 4 x 2200MHz; 2018 Intel Core i3-8121U; amd64; Cannon Lake (906F63); supercop-20190910
Bobcat: 4 x 3300MHz; 2018 Intel Xeon E-2124; amd64; Coffee Lake (906E4); supercop-20230630
Bobcat: 4 x 3200MHz; 2017 Intel Core i7-8700; amd64; Coffee Lake (906E4); supercop-20190910
Bobcat: 4 x 3000MHz; 2017 Intel Xeon E3-1220 v6; amd64; Kaby Lake (906E9); supercop-20230630
Bobcat: 2 x 2400MHz; 2017 Intel Core i7-8700; amd64; Kaby Lake (906E9); supercop-20211221
Bobcat: 4 x 3100MHz; 2018 Intel Core i7-8809G; amd64; Kaby Lake (906E9); supercop-20191017
Bobcat: 2 x 3300MHz; 2015 Intel Pentium G4400; amd64; Skylake (506C3); supercop-20171218
Bobcat: 4 x 3000MHz; 2015 Intel Xeon E3-1220 v5; amd64; Skylake (506C3); supercop-20230630
Bobcat: 28 x 2400MHz; 2016 Intel Xeon E5-2650 v4; amd64; Broadwell+AES (406F1); supercop-20180818
Bobcat: 18 x 2400MHz; 2016 Intel Xeon E5-2650 v4; amd64; Broadwell+AES (406F1); supercop-20170228
Bobcat: 18 x 2400MHz; 2016 Intel Xeon E5-2650 v4; amd64; Broadwell+AES (406F1); supercop-20170228
Bobcat: 18 x 2400MHz; 2016 Intel Xeon E5-2650 v4; amd64; Broadwell+AES (406F1); supercop-20170228
Bobcat: 20 x 2400MHz; 2014 Intel Xeon E5-2650 v3; amd64; Haswell+AES (306F1); supercop-20191818
Bobcat: 12 x 2400MHz; 2014 Intel Xeon E5-2650 v3; amd64; Haswell+AES (306F1); supercop-20191818
Bobcat: 4 x 2500MHz; 2013 Intel Xeon E3-1275 V2; amd64; Ivy Bridge+AES (306F1); supercop-20230630
Bobcat: 4 x 2500MHz; 2013 Intel Xeon E3-1275 V2; amd64; Ivy Bridge+AES (306F1); supercop-20230630
Bobcat: 12 x 2700MHz; 2013 Intel Xeon E5-2697 v2; amd64; Ivy Bridge+AES (306F1); supercop-20180818
Bobcat: 2 x 1800MHz; 2012 Intel Core i5-3427U; amd64; Ivy Bridge+AES (306F1); supercop-20230630
Bobcat: 4 x 3500MHz; 2012 Intel Core i3-3227 V2; amd64; Ivy Bridge+AES (306F1); supercop-20230630
Bobcat: 4 x 2500MHz; 2012 Intel Xeon E5-1265L V2; amd64; Ivy Bridge+AES (306F1); supercop-20210326
Bobcat: 8 x 2000MHz; 2012 Intel Xeon E5-4650L; amd64; Sandy Bridge+AES (206F7); supercop-20170228
Bobcat: 4 x 3100MHz; 2011 Intel Xeon E3-1225; amd64; Sandy Bridge+AES (206F7); supercop-20230630
Bobcat: 2 x 2100MHz; 2011 Intel Core i3-2310M; amd64; Sandy Bridge (206F7); supercop-20221121
Bobcat: 2 x 3200MHz; 2010 Intel Core i5-650; amd64; Westmere (206S2); supercop-20171015
Bobcat: 2 x 3060MHz; 2009 Intel Core 2 Duo E7600; amd64; Core 2 45nm (106F4); supercop-20230630
Bobcat: 2 x 2137MHz; 2006 Intel Core 2 Duo E6400; amd64; Core 2 65nm (66F); supercop-20171015
Bobcat: 2 x 2000MHz; 2007 Intel Core 2 Duo T7300; amd64; Core 2 65nm (66F); supercop-20230630
Bobcat: 4 x 2394MHz; 2007 Intel Core 2 Quad Q6600; amd64; Core 2 65nm (66F); supercop-20230630
Bobcat: 4 x 2394MHz; 2007 Intel Core 2 Quad Q6600; amd64; Core 2 65nm (66F); supercop-20230630
Bobcat: 4 x 2394MHz; 2007 Intel Core 2 Quad Q6600; amd64; Core 2 65nm (66F); supercop-20230630
Bobcat: 4 x 2394MHz; 2007 Intel Core 2 Quad Q6600; amd64; Core 2 65nm (66F); supercop-20230630
Bobcat: 4 x 2394MHz; 2007 Intel Core 2 Quad Q6600; amd64; Core 2 65nm (66F); supercop-20230630
Bobcat: 2 x 1100MHz; 2021 Intel Celeron N4500; amd64; Tremont (906C0); supercop-20230630
Bobcat: 4 x 2000MHz; 2021 Intel Celeron N5105; amd64; Tremont (906C0); supercop-20230630
Bobcat: 4 x 1100MHz; 2021 Intel Pentium Silver N6000; amd64; Tremont (906C0); supercop-20230630
Bobcat: 2 x 1100MHz; 2019 Intel Celeron N4020; amd64; Goldmont Plus (706A8); supercop-20230630
Bobcat: 4 x 1500MHz; 2016 Intel Celeron J3455; amd64; Goldmont (506C9); supercop-20230630
Bobcat: 16 x 2100MHz; 2017 Intel Atom C3955; amd64; Goldmont (506F1); supercop-20191017
Bobcat: 4 x 1600MHz; 2015 Intel Pentium N3700; amd64; Airmont (406C3); supercop-20230630
Bobcat: 4 x 1440MHz; 2016 Intel Atom i5-2B350; amd64; Silvermont (406C4); supercop-20230630
Bobcat: 2 x 1866MHz; 2011 Intel Atom D2500; amd64; Bonnell (306F1); supercop-20230630
Bobcat: 1 x 720MHz; 2006 IBM PowerPC Broadway; ppc32; G3 (03); supercop-20191221
Bobcat: 4 x 1400MHz; 2017 SiFive Freedom U540; riscv64; U54 (sifive,u54-mc); supercop-20191221
Bobcat: 4 x 1000MHz; 2017 SiFive Freedom U540; riscv64; U54 (sifive,u54-mc); supercop-20210326
Bobcat: 2 x 2000MHz; 2011 Cavium Octeon II CN6120; mips32; Octeon II (cmnips64v2); supercop-20230630
Bobcat: 2 x 2000MHz; 2011 Cavium Octeon II CN6120; mips32; Octeon II (cmnips64v2); supercop-20220213
Bobcat: 1 x 1200MHz; 2010 Marvell Armada 310; armeabi; Armada (562F1311); supercop-20170718
Bobcat: 4 x 900MHz; 2016 Broadcom BCM2836; armeabi; Cortex-A7 (413f075); supercop-20230630
Bobcat: 1 x 1000MHz; 2012 TI Sitara XAM3359AZC1210; armeabi; Cortex-A8 (413f082); supercop-20230630
Bobcat: 4 x 1200MHz; 2011 Freescale i.MX6 Quad; armeabi; Cortex-A9+NEON (412f09A); supercop-20200702
Bobcat: 4 x 1200MHz; 2011 Samsung Exynos 44127; armeabi; Cortex-A9+NEON (413f090); supercop-20191221
Bobcat: 4 x 1200MHz; 2011 Freescale i.MX6 Quad; armeabi; Cortex-A9+NEON (412f09A); supercop-20191221
Bobcat: 4 x 2065MHz; 2014 NVIDIA Tegra K1; armeabi; Cortex-A15 (413f0F3); supercop-20170728
Bobcat: 8 x 1600MHz; 2014 APM 88320B-X1; aarch64; X-Gene (500F000); supercop-20171218
Bobcat: 4 x 1400MHz; 2018 Broadcom BCM2837B0; aarch64; Cortex-A53 (410f034); supercop-20230630
Bobcat: 4 x 1400MHz; 2018 Broadcom BCM2837B0; aarch64; Cortex-A53 (410f034); supercop-20221121
Bobcat: 4 x 1500MHz; 2015 AMD A10-5800; aarch64; Cortex-A53+crypto (410f034); supercop-20171017
Bobcat: 4 x 1500MHz; 2015 AMD A10-5800; aarch64; Cortex-A53+crypto (410f034); supercop-20171017
Bobcat: 4 x 1500MHz; 2015 AMD A10-5800; aarch64; Cortex-A53+crypto (410f034); supercop-20171017
Bobcat: 4 x 1500MHz; 2015 AMD A10-5800; aarch64; Cortex-A53+crypto (410f034); supercop-20171017
Bobcat: 4 x 1500MHz; 2015 AMD A10-5800; aarch64; Cortex-A53+crypto (410f034); supercop-20171017
Bobcat: 4 x 1500MHz; 2015 AMD A10-5800; aarch64; Cortex-A53+crypto (410f034); supercop-20171017
Bobcat: 4 x 1734MHz; 2015 NVIDIA Tegra X1; aarch64; Cortex-A57+crypto (418f071); supercop-20191017
Bobcat: 8 x 2000MHz; 2016 AMD Opteron A1100; aarch64; Cortex-A57+crypto (411f072); supercop-20200626
Bobcat: 4 x 1500MHz; 2019 Broadcom BCM2711; aarch64; Cortex-A72 (410f083); supercop-20221121
Bobcat: 4 x 1500MHz; 2019 Broadcom BCM2711; aarch64; Cortex-A72 (410f083); supercop-20191221
Bobcat: 2 x 2100MHz; 2015 Mediatek MT8173; aarch64; Cortex-A72+crypto (418f080); supercop-20170904
Bobcat: 64 x 2500MHz; 2018 Cavium ThunderX2 CN9980; aarch64; ThunderX2 (431f0A1); supercop-20191017